

Wednesday 18 February

8:30 – 9:30	Participants Registration
9:30 – 9:45	Opening ceremony Vincenzo Bonaiuto
9:45 – 10:15	Keynote Speech Michele Marino
10:15 – 11:15	Materials 1
11:15 – 11:45	Coffee Break
11:45 – 13:00	Materials 2
13:00 – 14:00	Lunch
14:00– 15:30	Materials 3
15:30– 16:00	Coffee Break
16:00– 17:30	Materials 4 – Medicine 1

Materials 1 - Chairperson Alessandra Varone		
10:15	Ferrari	Titanium surface treatment in motorsport: an overview from coating to diffusion solutions
10:30	Spriano	Multifunctional titanium surfaces for bone implants from osseointegration to antibacterial and immunomodulation
10:45	Renna	Correlation between microstructure, surface treatment, and corrosion resistance in titanium orthodontic miniscrews
11:00	Leo	Influence of post-processing treatments on the microstructure and mechanical properties of Ti6Al4V alloy processed by Metal Injection Moulding

Materials 2 - Chairperson Alex Lanzutti		
11:45	Gaiani	Manufacturing of titanium structures for enhancing pilot's safety in motorsport
12:00	Gragnanini	Process parameters optimization for L-PBF of NiTi alloy: a combined analytical and experimental investigation for biomedical stent applications
12:15	Inken	Chewi - cyclic mechanical loading for dental materials via low-cost modification of 3D printer
12:30	Palombi	The importance of materials in sports performance and athlete health
12:45	Mezzi	Insight into the surface chemical composition of Ag NPs in elementary and composite materials for biomedical applications

Materials 3 Chairperson Paola Leo		
14:00	Lanzutti	Study of solubilizing treatment on CoCrW dental alloy produced by SLM
14:15	Santecchia	A comparative study of LPBF scaffold and alloy designs for biomedical applications
14:30	Varone	Industrial scale-up of plasma assisted low temperature carburizing process of austenitic steels. Conceptual design of a prototypal reactor.
14:45	Marrocco	From passive implants to wireless data generators: laser-induced graphene technologies for sensorized prostheses
15:00	Richetta	Layered double hydroxides as structurally engineered platforms: concepts, tools, and biomedical opportunities
15:15	Rondinella	Effect of geopolymer-based coatings on magnesium alloys biocorrosion rate

Materials 4- Medicine 1 Chairperson Maria Richetta		
16:00	Veronesi	Microwave assisted chemical milling of additively manufactured metal parts
16:15	Abrami	Chemical polishing of Nitinol stent-shaped samples produced by laser powder bed fusion
16:30	Acquesta	Titanium nanotubes: a new device for medical applications?
16:45	Yasmeen	Synthesis of surfactant-assisted ZnO-CeO ₂ photocatalyst for the photocatalytic degradation of Bentazon under UV light irradiation
17:00	Baldini	AI-Driven Natural-Language Control of Aortic Statistical Shape Models for Interactive In-Silico Testing of Ascending Aortic Grafts
17:15	Kracht	Development of a prototype for the photocatalytic decomposition of micropollutants in hospital wastewaters using plasmonic nanoparticles